

## ePro PS

## PanelMate ePro PS



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## Product Description

The PanelMate ePro PS family is made up of high performance yet cost-effective operator interface products. The ePro PS family carries on the PanelMate tradition of performance in balance with ease of use. The ePro PS family sets the standard for hybrid OI systems by combining the flexibility of Microsoft's® Windows® XP Embedded operating with the stability and reliability achieved through the solid-state hardware design and exclusive Protect Mode™ that provides protection for the operating system and software.

The ePro PS family provides the performance and flexibility of PC based operator interfaces without the associated complexity of a PC on the plant floor. With integrated high-speed Ethernet, serial ports, USB ports, removable CompactFlash® and PCMCIA, the ePro PS models can be adapted for a wide variety of user requirements.

The ePro PS family of products are configured with the Canvas® editing software. The Canvas editor supports a modern suite of graphical templates, called controls, for replacing hard-wired panel devices such as pushbuttons, indicator lights, bars, readouts, message displays, etc.

The PanelMate ePro PS family of products includes:

- PanelMate ePro PS
- PanelMate ePro PS OD (Outdoor Series)
- PanelMate ePro PS EE (Enterprise Edition)
- PanelMate ePro PS Classic

## PanelMate ePro PS OD

The PanelMate ePro PS OD (Outdoor Series) operator interface is designed for use in outdoor applications. The OD models offer increased visibility in high ambient light, broad temperature specifications and UV resistance.

## PanelMate ePro PS EE

The PanelMate ePro PS EE (Enterprise Edition) operator interface is designed for end-users that need more system memory, more data storage or additional Windows XP Embedded components and services to support large Canvas applications or third-party software.

## PanelMate ePro PS Classic

The PanelMate ePro PS Classic operator interface is designed for use by end-users that are currently using the PanelMate Power Pro software and are ready for the new PanelMate ePro PS hardware but are not quite ready to convert their PanelMate Power Pro configurations to Canvas applications. Since the PanelMate ePro PS Classic OI supports Power Pro and Canvas Runtime software, the user can utilize the Canvas Runtime software if and when they are ready.

The ePro PS Classic OI is based on the PanelMate ePro PS hardware models with the addition of software and licenses that allow users to run the PanelMate Power Pro Runtime software. One difference is in the area of drivers: the ePro PS Classic OI running PanelMate Power Pro configurations does not support native (non-OPC) communication drivers, but does support up to three OPC drivers simultaneously.

## Application Description

Whether replacing hard-wired pilot devices and pushbuttons or providing machine control and even SCADA functions, the ePro PS family of products will fit from both a form and functional standpoint. In monitoring and diagnostic applications, as well as operator controls for critical start/stop, ramp/jog and set point adjustment, the PanelMate ePro PS products offer a reliable and safe interface for a wide range of industrial applications such as:

- Discrete manufacturing machine diagnostics and controls
- Oil platform monitoring and control in the petroleum industry
- Central and remote water and wastewater control panels
- Monitoring and control panels for local facilities/air handling equipment
- Tire manufacturing mixing and building processes
- Industrial and commercial power house controls; building HVAC controls
- Material handling and palletizing monitoring and control
- Automotive press and machine parts controls

## Features

**Table 48-16. PanelMate ePro PS Features**

Feature	Description
8" Display Models	<ul style="list-style-type: none"> <li>■ 8.40" (213.4 mm), color TFT display, 16 million colors</li> <li>■ SVGA (800 x 600) resolution</li> <li>■ 400 nits (400 cd/m<sup>2</sup>), OD Models 425 nits (425 cd/m<sup>2</sup>) brightness</li> <li>■ 50,000 hours typical life for backlight; field replaceable</li> <li>■ Auto dimming</li> </ul>
10" Display Models	<ul style="list-style-type: none"> <li>■ 10.40" (260 mm), color TFT display, 16 million colors</li> <li>■ SVGA (800 x 600) resolution</li> <li>■ 420 nits (420 cd/m<sup>2</sup>) brightness</li> <li>■ 50,000 hours typical life for backlight; field replaceable</li> <li>■ Auto dimming</li> </ul>
12" Display Models	<ul style="list-style-type: none"> <li>■ 12.10" (307.3 mm), color TFT display, 16 million colors</li> <li>■ SVGA (800 x 600) resolution</li> <li>■ 450 nits (450 cd/m<sup>2</sup>), OD Models 505 nits (505 cd/m<sup>2</sup>) brightness</li> <li>■ 50,000 hours typical life for backlight, field replaceable</li> <li>■ Auto dimming</li> </ul>
15" Display Models	<ul style="list-style-type: none"> <li>■ 15.00" (381.0 mm), color TFT display, 16 million colors</li> <li>■ XGA (1024 x 768) resolution</li> <li>■ 250 nits (250 cd/m<sup>2</sup>), OD Models 600 nits (600 cd/m<sup>2</sup>) brightness</li> <li>■ 50,000 hours typical life for backlight, field replaceable</li> <li>■ Auto dimming</li> </ul>
Blind Node (No Display) Models	<ul style="list-style-type: none"> <li>■ VGA (640 x 480), SVGA (800 x 600), XGA (1024 x 768), SXGA (1280 x 1024), UXGA (1600 x 1200) resolution</li> <li>■ 16 million colors (SXGA and UXGA — 65K colors)</li> </ul>
Operator Entry	<ul style="list-style-type: none"> <li>■ Touchscreen interface with resistive technology for gloved-hand operation</li> <li>■ Pop-up, on-screen alphanumeric keypad support</li> </ul>
Hardware/Mounting	<ul style="list-style-type: none"> <li>■ Single-piece lightweight design for easy panel mounting (except blind node models)</li> </ul>
Powerful OI Capabilities	<ul style="list-style-type: none"> <li>■ Supports Canvas controls</li> <li>■ Built-in two-touch control</li> <li>■ Full math and logic expressions</li> </ul>
Communications and I/O Capabilities	<ul style="list-style-type: none"> <li>■ One integrated Ethernet port: 10/100Base-T</li> <li>■ Two serial ports: RS-232 and RS-232/422/485 (optically isolated)</li> <li>■ Four USB ports: V2.0</li> <li>■ One CompactFlash® memory card slot</li> <li>■ Two PCMCIA Type II slots (or one Type III)</li> <li>■ Built-in OPC Client/Server with support for over 100 OPC drivers for both Ethernet and serial connectivity</li> <li>■ One video output port</li> </ul>
Protect Mode	<ul style="list-style-type: none"> <li>■ Safeguards the integrity of operating system files and data files by preventing unauthorized alterations and corruption caused by viruses or unexpected power disruptions</li> </ul>

## Technical Data

**Table 48-17. PanelMate ePro PS Technical Data**

Description	Specification
Memory	PS, OD and Classic Models: 512 MB DDR2 RAM, 1 GB Internal CompactFlash (C and D drive) EE Models: 512 MB DDR2 RAM, 4 GB Internal CompactFlash (C drive), 512 MB external CompactFlash (D drive) All Models: External CompactFlash card slot, USB and PCMCIA ports available for additional memory
Voltage	24V DC Nominal (16 – 30V DC)
Power Consumption/ Heat Output	8" Display Models: 31 watts (105 BTU/hour) 10" Display Models: 33 watts (113 BTU/hour) 12" Display Models: 35 watts (120 BTU/hour) 15" Display Models: 54 watts (184 BTU/hour), OD 52 watts (178 BTU/hour) Blind Node (No Display) Models: 24 watts (82 BTU/hour)
Current	8" Display Models: 1.3 amperes 10" Display Models: 1.4 amperes 12" Display Models: 1.5 amperes 15" Display Models: 2.25 amperes Blind Node (No Display) Models: 1.0 amperes
Peak Inrush Current	8" Display Models: 7.0 amperes 10" Display Models: 7.0 amperes 12" Display Models: 7.0 amperes 15" Display Models: 8.0 amperes Blind Node (No Display) Models: 7.0 amperes
Installation Rating	All ePro PS display models are approved for use in Type 4, 4X, 12 and IP65 installations when properly mounted in a correspondingly rated enclosure.
System Ambient Temperature	All Models — ■ Operating: 0 – 60°C [32 – 140°F] ■ Non-operating: -25 to 70°C [-13 to 158°F]
System Vibration	Operating and Non-operating: 1G from 5 – 500 Hz
System Shock	Operating and Non-operating: 100G
Relative Humidity	Operating: 20 – 95% non-condensing Non-operating: 20 – 95% non-condensing
Altitude	Operating: 10,000 ft. (3,048m) above sea level Non-operating: 40,000 ft. (12,192m) above sea level
Emissions	CISPR 11 Class A, Radiated and Conducted
Noise Immunity	IEC 61000-4-2, 3, 4, 5, 6, 8, 11
Agency Certifications	RoHS, CE mark UL/cUL and CSA Class I, Div 2, Groups A, B, C, D
Overall Dimensions (H x W x D)	8" Display Models: 7.63 x 10.51 x 3.90 in. (193.8 x 267.0 x 99.1 mm) 10" Display Models: 12.00 x 12.30 x 3.90 in. (304.8 x 312.4 x 99.1 mm) 12" Display Models: 11.60 x 15.90 x 3.90 in. (294.6 x 403.9 x 99.1 mm) 15" Display Models: 13.50 x 18.60 x 4.00 in. (342.9 x 472.4 x 101.6 mm) Blind Node (No Display) Models: 9.30 x 12.00 x 3.60 in. (236.2 x 304.8 x 91.4 mm)
Cutout Dimensions (H x W)	8" Display Models: 6.50 x 9.38 in. (165.1 x 238.3 mm) 10" Display Models: 11.02 x 11.40 in. (279.9 x 289.6 mm) 12" Display Models: 10.12 x 14.34 in. (257.0 x 364.2 mm) 15" Display Models: 12.05 x 17.01 in. (306.1 x 432.1 mm) Blind Node (No Display) Models: Designed for mounting in a cabinet
Weight	8" Display Models: 6.0 lbs. (2.73 kg) 10" Display Models: 10.5 lbs. (4.77 kg) 12" Display Models: 13.0 lbs. (5.91 kg) 15" Display Models: 17.0 lbs. (7.73 kg) Blind Node (No Display) Models: 4.5 lbs. (2.05 kg)

**Product Selection**

**Table 48-18. PanelMate ePro PS Operator Interface (76xx Series)**

Description	Catalog Number	Price U.S. \$
<b>PanelMate ePro PS</b>		
8.4" Color TFT Display, Touchscreen (Acrylic), OPC, DC, User Manual on CD-ROM	7685T-8	
10.4" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-10	
10.4" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-10	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-12	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-12	
15.0" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-15	
15.0" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-15	
Blind Node (No Display, see <b>Table 48-22</b> for display options), OPC, DC, User Manual on CD-ROM	7600	
<b>PanelMate ePro PS EE (Enterprise Edition)</b>		
8.4" Color TFT Display, Touchscreen (Acrylic), OPC, DC, User Manual on CD-ROM	7685T-8E	
10.4" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-10E	
10.4" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-10E	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-12E	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-12E	
15.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-15E	
15.0" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-15E	
Blind Node (No Display, see <b>Table 48-22</b> for display options), OPC, DC, User Manual on CD-ROM	7600E	
<b>PanelMate ePro PS OD (Outdoor)</b>		
8.4" Color TFT Display, Touchscreen (Acrylic), OPC, DC, User Manual on CD-ROM	7685T-8OD	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-12OD	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-12OD	
15.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-15OD	
15.1" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-15OD	
<b>PanelMate ePro PS Classic</b>		
8.4" Color TFT Display, Touchscreen (Acrylic), OPC, DC, User Manual on CD-ROM	7685T-8C	
10.4" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-10C	
10.4" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-10C	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-12C	
12.1" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-12C	
15.1" Color TFT Display, Touchscreen (Glass), OPC, Painted Steel, DC, User Manual on CD-ROM	7685T-15C	
15.1" Color TFT Display, Touchscreen (Glass), OPC, Stainless Steel, DC, User Manual on CD-ROM	7685ST-15C	
Blind Node (No Display, <b>Table 48-22</b> for display options), OPC, DC, User Manual on CD-ROM	7600C	

**Note:** Customs available upon request.

Discount Symbol ..... **PM-1**